

CLAIMS

I claim:

1. A drain trap with clean out characterized by and comprising:

(a) a detachable wall cover plate (1) that may be attached or secured to the drain trap unit (2).

(b) a drain trap unit (2) having three apertures or tube connectors.

(c) one of said apertures (3a) permitting the installation of a tube to a fixture or apparatus.

(d) a second aperture (3b) being a clean out access and permitting the installation of a sealing device (4a) such as but not limited to a cap with gasket materials.

(e) a sealing device (4a) attached to a detachable flexible device (5) for screening and/or cleaning the tube or drain trap unit (2).

(f) a flexible device (5) comprised of a bristle brush, used for screening and/or cleaning the inside cavity of the drain trap unit (2) or tube, being this flexible device attached to the sealing device (4a) by a manner such as but not limited to being screwed to the sealing device (4a).

(g) a third aperture (3c) connecting the drain trap unit (2) to the waste line or drain pipes.

(h) a partition element (6) located inside the drain trap unit (2), wherein this partition element (6) prevents the sewer gas from passing through.

(i) a slip joint sealant or connector (4b) to secure the pipe to the drain trap unit (2).

(j) two detachable stud mount arms (7) that will enable the drain trap unit (2) to be secured to a wall.

(k) a securing device that will enable the wall cover plate (1) to be attached to the drain trap unit (2); being such securing device such as but not limited to a screw (8a) and being secured to a mount such as but not limited to a screw mount (8b) on the drain trap unit (2).

(l) a mount such as but not limited to a screw mount (8b).

2. The drain trap with clean out described in Claim 1, comprising:

(a) a detachable wall cover plate (1) to be attached or secured to the drain trap unit (2), being this wall cover plate (1) made of materials such as but not limited to metal, plastic, polyvinylchloride (PVC) and/or any man made materials.

(b) a drain trap unit (2) made of materials such as but not limited to metal, plastic, polyvinylchloride (PVC) and/or any man made materials, having said drain trap unit (2) three apertures or tube connectors.

(c) one of said apertures (3a) permitting the installation of a tube to a fixture or apparatus.

(d) a second aperture (3b) being a clean out access and permitting the installation of a sealing device (4a).

(e) a sealing device (4a) attached to a detachable flexible device (5), such sealing device (4a) including but not limited to a cap made of materials such as but not limited to metal, plastic, rubber, teflon, polyvinylchloride (PVC) and/or any man made materials.

(f) a flexible device (5) comprised of a bristle brush used for screening and/or cleaning the tube or inside cavity of the drain trap unit (2), wherein said flexible device (5) includes a rod made of materials such as but not limited to plastic, rubber, natural hair, byproducts, nylon and/or man made materials; and wherein this flexible device (5) is attached to the sealing device (4a) by a manner such as but not limited to being screwed to the sealing device (4a).

(g) a third aperture (3c) connecting the drain trap unit (2) to the waste line or drain pipes.

(h) a partition element (6) located inside the drain trap unit (2) and made of materials such as but not limited to metal, plastic, polyvinylchloride (PVC) and/or any man made materials, and wherein this partition element (6) prevents the sewer gas from passing through.

(i) a slip joint sealant or connector (4b) made of materials such as but not limited to metal, plastic, polyvinylchloride (PVC) and/or any man made materials, and wherein this slip joint sealant (4b) secures the pipe to the drain trap unit (2).

(j) two detachable stud mount arms (7) made of materials such as but not limited to metal, plastic, polyvinylchloride (PVC) and/or any man made materials, and that will enable the drain trap unit (2) to be secured to a wall.

(k) a securing device that will enable the wall cover plate (1) to be attached to the drain trap unit (2), being such securing device such as but not limited to a screw (8a) made of materials such as but not limited to metal(s) and being secured into a mount such as but not limited to a screw mount (8b) made of materials such as but not limited to metal, plastic, polyvinylchloride (PVC) and/or any man made materials, being such screw mount (8b) on the drain trap unit (2).

3. The drain trap with clean out described in Claim 1, wherein the drain trap unit is of any configuration or design, is installed inside a wall, and is not visible outside of the wall except for the wall cover plate (1), screw (8a), slip joint sealant or connector (4b), sealing device or cap (4a), and wherein user may remove the sealing device or cap (4a) and flexible device (5) to access and clean the interior of the drain trap unit (2).

4. The drain trap with clean out described in Claim 2, wherein the drain trap unit is of any configuration or design, is installed inside a wall, and is not visible outside of the wall except for the wall cover plate (1), screw (8a), slip joint sealant or connector (4b), sealing device or cap (4a), and wherein user may remove the sealing device or cap (4a) and flexible device (5) to access and clean the interior of the drain trap unit (2).

5. A drain trap with clean out to be installed outside a wall, characterized by and comprising:

(a) a drain trap unit (2) having three apertures or tube connectors.

(b) one of said apertures (3a) permitting the installation of a tube to a fixture or apparatus.

(c) a second aperture (3b) being a clean out access and permitting the installation of a sealing device (4a) such as but not limited to a cap with gasket materials.

(d) a sealing device (4a) attached to a detachable flexible device (5) for screening and/or cleaning the tube or drain trap unit (2).

(e) a flexible device (5) comprised of a bristle brush, used for screening and/or cleaning the inside cavity of the drain trap unit (2) or tube, being this flexible device attached to the sealing device (4a) by a manner such as but not limited to being screwed to the sealing device (4a).

(f) A third aperture (3c) connecting the drain trap unit (2) to the waste line or drain pipes.

(g) a partition element (6) located inside the drain trap unit (2), wherein this partition element (6) prevents the sewer gas from passing through.

(h) a slip joint sealant or connector (4b) to secure the pipe to the drain trap unit (2).

(i) two detachable stud mount arms (7) that will enable the drain trap unit (2) to be secured to a wall.

6. The drain trap with clean out to be installed outside a wall and described in Claim 5, comprising:

(a) a drain trap unit (2) made of materials such as but not limited to metal, plastic, polyvinylchloride (PVC) and/or any man made materials, having said drain trap unit (2) three apertures or tube connectors.

(b) one of said apertures (3a) permitting the installation of a tube to a fixture or apparatus.

(c) a second aperture (3b) being a clean out access and permitting the installation of a sealing device (4a).

(d) a sealing device (4a) attached to a detachable flexible device (5), such sealing device (4a) including but not limited to a cap made of materials such as but not limited to metal, plastic, rubber, teflon, polyvinylchloride (PVC) and/or any man made materials.

(e) a flexible device (5) comprised of a bristle brush used for screening and/or cleaning the tube or inside cavity of the drain trap unit (2), wherein said flexible device (5) includes a rod made of materials such as but not limited to plastic, rubber, natural hair, byproducts, nylon and/or man made materials; and wherein this flexible device (5) is attached to the sealing device (4a) by a manner such as but not limited to being screwed to the sealing device (4a).

(f) a third aperture (3c) connecting the drain trap unit (2) to the waste line or drain pipes.

(g) a partition element (6) located inside the drain trap unit (2) and made of materials such as but not limited to metal, plastic, polyvinylchloride (PVC) and/or any man made materials, and wherein this partition element (6) prevents the sewer gas from passing through.

(h) a slip joint sealant or connector (4b) made of materials such as but not limited to metal, plastic, polyvinylchloride (PVC) and/or any man made materials, and wherein this slip joint sealant (4b) secures the pipe to the drain trap unit (2).

(i) two detachable stud mount arms (7) made of materials such as but not limited to metal, plastic, polyvinylchloride (PVC) and/or any man made materials, and that will enable the drain trap unit (2) to be secured to a wall.

7. The drain trap with clean out described in Claim 5, wherein the drain trap unit is of any configuration or design, and is installed and visible outside a wall.

8. The drain trap with clean out described in Claim 6, wherein the drain trap unit is of any configuration or design, and is installed and visible outside a wall.

9. A drain trap with clean out to be installed outside a wall, characterized by and comprising:

(a) a drain trap unit having three apertures or tube connectors, having such drain trap unit a shape or design including but not limited to a "J" (2a) or "P".

(b) one of said apertures (3d) permitting the installation of a tube to a fixture or apparatus.

(c) a second aperture (3e) being a clean out access and permitting the installation of a sealing device (4) such as but not limited to a cap with gasket materials.

(d) a sealing device (4) attached to a detachable flexible device (5a) for screening and/or cleaning the tube or drain trap unit (2a).

(e) a flexible device (5a) comprised of a bristle brush, used for screening and/or cleaning the inside cavity of the drain trap unit (2a) or tube, being this flexible device attached to the sealing device (4) by a manner such as but not limited to being screwed to the sealing device (4).

(f) A third aperture (3f) connecting the drain trap unit (2a) to the waste line or drain pipes.

10. The drain trap with clean out to be installed outside a wall and described in Claim 9, comprising:

(a) a drain trap unit having a shape or design such as but not limited to a "J" (2a) or "P" and made of materials such as but not limited to metal, plastic, polyvinylchloride (PVC) and/or any man made materials, having said drain trap unit (2a) three apertures or tube connectors.

(b) one of said apertures (3d) permitting the installation of a tube to a fixture or apparatus.

(c) a second aperture (3e) being a clean out access and permitting the installation of a sealing device (4).

(d) a sealing device (4) attached to a detachable flexible device (5a), such sealing device (4) including but not limited to a cap made of materials such as but not limited to metal, plastic, rubber, teflon, polyvinylchloride (PVC) and/or any man made materials.

(e) a flexible device (5a) comprised of a bristle brush used for screening and/or cleaning the tube or inside cavity of the drain trap (2a), wherein said flexible device (5a) includes a rod made of materials such as but not limited to plastic, rubber, natural hair, byproducts, nylon and/or man made materials; and wherein this flexible device (5a) is attached to the sealing device (4) by a manner such as but not limited to being screwed to the sealing device (4).

(f) a third aperture (3f) connecting the drain trap unit (2a) to the waste line or drain pipes.

11. A drain trap with clean out as described in Claim 1 wherein the drain trap with clean out has the additional characteristics:

(a) Installed inside a wall, being the drain trap with clean out a clean looking and sleek design and therefore an aesthetic improvement to the waste line designs of the prior art, offering more possibility and flexibility for user.

(b) the inside wall installation does not permit user's physical contact with the drain trap unit (2) and/or tubes, for benefit including but not limited to disabled people who may be sitting on a wheelchair, thus reducing the risk of physical injuries of skin burning when hot water is running in the sink and drain to the drain trap unit (2), and in compliance with the American Disability Act requirements.

(c) the inside wall installation does not permit user's physical contact with the drain trap unit (2) and/or tubes, for benefit including but not limited to disabled people who may be sitting on a wheelchair, thus preventing physical injuries to user in case of an uncontrolled collision of the knee(s) or leg(s) to the drain trap unit (2).

(d) the inside wall installation does not permit user's physical contact with the drain trap unit (2) and/or tubes, for benefit including but not limited to disabled people who may be sitting on a wheelchair, and permitting user to come closer to the faucet in order to operate and reach the handle/lever.

(e) the inside wall installation does not permit user's physical contact with the drain trap unit (2) and/or tubes, for benefit including but not limited to disabled people who may be sitting on a wheelchair, in order for user to approach the sink forward to wash user's face and/or arms.

(f) the drain trap unit (2) with aperture clean out access (3b) of the waste line for easy service.

12. A drain trap with clean out as described in Claim 2 wherein the drain trap with clean out has the additional characteristics:

(a) Installed inside a wall, being the drain trap with clean out a clean looking and sleek design and therefore an aesthetic improvement to the waste line designs of the prior art, offering more possibility and flexibility for user.

(b) the inside wall installation does not permit user's physical contact with the drain trap unit (2) and/or tubes, for benefit including but not limited to disabled people who may be sitting on a wheelchair, thus reducing the risk of physical injuries of skin burning when hot water is running in the sink and drain to the drain trap unit (2), and in compliance with the American Disability Act requirements.

(c) the inside wall installation does not permit user's physical contact with the drain trap unit (2) and/or tubes, for benefit including but not limited to disabled people who may be sitting on a wheelchair, thus preventing physical injuries to user in case of an uncontrolled collision of the knee(s) or leg(s) to the drain trap unit (2).

(d) the inside wall installation does not permit user's physical contact with the drain trap unit (2) and/or tubes, for benefit including but not limited to disabled people who may be sitting on a wheelchair, and permitting user to come closer to the faucet in order to operate and reach the handle/lever.

(e) the inside wall installation does not permit user's physical contact with the drain trap unit (2) and/or tubes, for benefit including but not limited to disabled people who may be sitting on a wheelchair, in order for user to approach the sink forward to wash user's face and/or arms.

(f) the drain trap unit (2) with aperture clean out access (3b) of the waste line for easy service.

13. A drain trap with clean out as described in Claim 5 wherein the drain trap with clean out has the additional characteristics:

(a) Installed outside a wall, being the drain trap with clean out a clean looking and sleek design and therefore an aesthetic improvement to the waste line designs of the prior art, offering more possibility and flexibility for user.

(b) the drain trap unit (2) with aperture clean out access (3b) of the waste line for easy service.

14. A drain trap with clean out as described in Claim 6 wherein the drain trap with clean out has the additional characteristics:

(a) Installed outside a wall, being the drain trap with clean out a clean looking and sleek design and therefore an aesthetic improvement to the waste line designs of the prior art, offering more possibility and flexibility for user.

(b) The drain trap unit (2) with aperture clean out access (3b) of the waste line for easy service.

15. A drain trap with clean out as described in Claim 9 wherein the drain trap unit (2a) with aperture clean out access (3e) of the waste line facilitates easy service of the drain trap unit (2a).

16. A drain trap with clean out as described in Claim 10 wherein the drain trap unit (2a) with aperture clean out access (3e) of the waste line facilitates easy service of the drain trap unit (2a).

17. A drain trap with clean out as described in Claim 1 characterized in that the drain trap unit (2) is a sediment reservoir/container trap with an aperture being a clean out access (3b) of use in places such as but not limited to a metal shop and laboratories.

18. A drain trap with clean out as described in Claim 2 characterized in that the drain trap unit (2) is a sediment reservoir/container trap with an aperture being a clean out access (3b) of use in places such as but not limited to a metal shop and laboratories.

19. A drain trap with clean out as described in Claim 5 characterized in that the drain trap unit (2) is a sediment reservoir/container trap with an aperture being a clean out access (3b) of use in places such as but not limited to a metal shop and laboratories.

20. A drain trap with clean out as described in Claim 6 characterized in that the drain trap unit (2) is a sediment reservoir/container trap with an aperture being a clean out access (3b) of use in places such as but not limited to a metal shop and laboratories.

21. A drain trap with clean out as described in Claim 9 characterized in that the drain trap unit (2a) is a sediment reservoir/container trap with an aperture being a clean out access (3e) of use in places such as but not limited to a metal shop and laboratories.

22. A drain trap with clean out as described in Claim 10 characterized in that the drain trap unit (2a) is a sediment reservoir/container trap with an aperture being a clean out access (3e) of use in places such as but not limited to a metal shop and laboratories.